

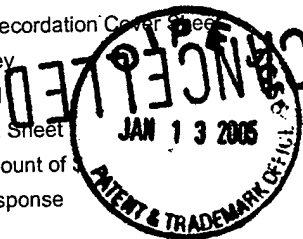
Date Mailed: JAN 10 / 05 | Atty/Sec: AHR/scg | Filing Date: October 15, 2003
Application No.: 10/687,019 | Docket No.: 20412-07973
Applicant(s): John Barrus et al.

Title: Document Collection Manipulation

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TRANSMITTAL FORM

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Application Number	10/687,019		
	Filing Date	October 15, 2003	
	First Named Inventor	John Barrus	
	Group Art Unit Number	2176	
	Examiner Name	not yet known	
Total Number of Pages in This Submission	12*	Attorney Docket Number	20412-07973

ENCLOSURES (check all that apply)

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REMARKS: *Page count does not include cited references.

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Attorney/Reg. No.:	Amir H. Raubvogel, Reg. No. 37,070	Dated: JAN 10/05

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APPLICANT: John Barrus, Gregory J. Wolff, Kurt Piersol, Bradley Rhodes and
Stephen Savitzky

APPLICATION NO. 10/687,019

FILING DATE: October 15, 2003

TITLE: Document Collection Manipulation

EXAMINER: Not yet known

GROUP ART UNIT: 2176

ATTY. DKT. NO.: 20412-07973

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INFORMATION DISCLOSURE STATEMENT
Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO/SB/08A listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

- ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
 - ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
 - ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; (2) a notice of allowance under 37 CFR § 1.311; or (3) an action that otherwise closes prosecution in the application, and:
 - ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement;
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained

in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☒ Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.
- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☐ This application was filed after June 30, 2003. Therefore, pursuant to the waiver of the requirements under 37 CFR 1.98(a)(2)(i), copies of each U.S. Patent and each U.S. Patent Application Publication are not required to be submitted. Copies of any foreign patent documents and non-patent literature cited herein are enclosed.
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.


Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
JOHN BARRUS ET AL.

Dated: Jan 10/05

By: [Signature]
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Application No.	10/687,019
		Filing Date	October 15, 2003
		First Named Inventor	John Barrus
		Art Unit	2176
		Examiner Name	not yet known
		Attorney Docket Number	20412-07973
Sheet	1	8	

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number – Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A1	US-5,982,507	11-09-1999	Weiser et al.

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ – Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
	B1	EP 1 001 605 A3	05-17-2000	Xerox Corporation	

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
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	C1	Acrobat Reader Version 2.0 (software application), Adobe Systems Incorporated, screenshots Figures 1-10 (1994).		
	C2	Adobe Acrobat Reader 3.0 screen dumps (fig. 1-3), 1996.		
	C3	Adobe Premiere (video editing software) from http://www.adobe.com (2002)		
	C4	Adobe Systems, Inc., "Adobe Photoshop 4.0 User Guide for Macintosh and Windows," 1996, Title Page, Copyright Page, Chap. 2, pp. 30-31.		
	C5	Apple Macintosh system 7 reference manual, pages 30-31 (1991)		
	C6	BALL, THOMAS et al., "Software Visualization in the Large," IEEE Computer, Vol. 29, No. 4, April 1996, pp. 33-43, http://www.computer.org/computer/co1996/r4033abs.htm .		
	C7	BEGOLE et al., "Flexible Collaboration Transparency," doc. ID: ncstri.vatach_cs/TR-98-11, Virginia Polytechnic Institute and State University, 1998.		


Examiner Signature		Date Considered	
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	C8	BEGOLE et al. "Flexible Collaboration Transparency: Supporting Worker Independence In Replicated Application-Sharing Systems," ACM Transactions On Computer-Human Interaction, June 1999, pp. 95-132, Vol. 6, No. 2.	
	C9	BEGOLE et al., "Supporting Worker Independence In Collaboration Transparency," technical report from the Computer Science Department of Virginia Tech, doc. ID: ncstrl.vatech_cs/TR-98-12.	
	C10	BOBICK et al., "A State Based Approach to the Representation and Recognition of Gesture," IEEE Trans. On Pattern Analysis and Machine Intelligence, pp. 1325-1337, 1997.	
	C11	BOGURAEV et al., "Salience-Based Content Characterization Of Text Documents," ACL/EACL'97 Intelligent Scalable Text Summarization Workshop Program, July 11, 1997, 14 pages.	
	C12	BORECZKY, J. et al., "An Interactive Comic Book Presentation for Exploring Video," Conference on Human Factors in Computing Systems (CHI 2000), ACM Press, pp. 185-192, 2000.	
	C13	BOYKIN et al., "Improving Broadcast News Segmentation Processing," IEEE Multimedia '99, 1999.	
	C14	BOYKIN et al., "Machine Learning of Event Segmentation for News on Demand," Communications of the ACM, 43:35-41, 2000.	
	C15	BRANDOW et al., "Automatic Condensation of Electronic Publications by Sentence Selection," Information Processing and Management, 31(5):875-685, 1995.	
	C16	BROWN et al., "Automatic Content-Based Retrieval of Broadcast News," ACM Multimedia 5, San Francisco, CA, 1995.	
	C17	BYRD, D., "A Scrollbar-based visualization for Document Navigation," doc. ID:xxx.cs.IR/9902028, Computing Research Repository: Information Retrieval, 1999.	
	C18	"c:\... \9149920c.wpd – unmodified" Screen Shots of document created in Corel WordPerfect, 4 pages (April 30, 2002)	
	C19	CHEN et al., "Emotion Recognition from Audiovisual Information," Proc. IEEE Workshop on Multimedia Signal Processing, Los Angeles, CA, USA, pp. 83-88, 1998.	
	C20	CHEN et al., "ViBE: A Video Indexing and Browsing Environment," Proceedings of the SPIE Conference on Multimedia Storage and Archiving Systems, September 20-22, 1999, Boston 3846:148-164, 1999.	

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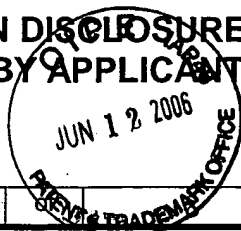
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**INFORMATION DISCLOSURE
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	C21	CHIU et al., "NoteLook: Taking Notes in Meetings with Digital Video and Ink," ACM Multimedia 99 Orlando, 1999.	
	C22	CHIU et al., "Automatically Linking Multimedia Meeting Documents by Image Matching," Proceedings of Hypertext '00, ACM, New York, pp. 244-245, 2000.	
	C23	CHRISTEL et al., "Evolving Video Skims into Useful Multimedia Abstractions," Proceedings of the CHI '98 Conference on Human Factors in Computing Systems, pp. 171-178 Los Angeles, CA, April 1998.	
	C24	CHRISTEL et al., "Information Visualization Within a Digital Video Library," Journal of Intelligent Information Systems, 11:35-257, 1998.	
	C25	DELLAERT et al., "Recognizing Emotion in Speech," Proceedings ICSLP 96, Fourth International Conference on Spoken Language Processing New York, IEEE Vol. 1970-1973, Cat. No. 96TH8206), 1996.	
	C26	DIMITROVA et al., "Video Keyframe Extraction and Filtering: A Keyframe is not a Keyframe to Everyone," CIKM 1997:113-120, 1997.	
	C27	DONATO et al., "Classifying Facial Actions," IEEE Trans. on Pattern Analysis and Machine Intelligence, 21:974-989, 1999.	
	C28	DRUCKER et al., "SmartSkip: Consumer Level Browsing and Skipping of Digital Video Content," Paper: Technology to Help People Find Information, Vol. No. 4, Issue No. 1, pp. 219-226, Minneapolis, Minnesota, USA, April 20-25, 2002.	
	C29	ESSA et al., "Coding Analysis Interpretation and Recognition of Facial Expressions," IEEE Trans. on Pattern Analysis and Machine Intelligence, 19:757-763, 1997.	
	C30	"Facelt Face Recognition Technology Frequently Asked Technical Questions," Visionics Corporation, 36 pages.	
	C31	"Flexible JAMM Screenshots," downloaded from internet site http://simon.cs.ct.edu/~jamm 5/4/00.	
	C32	FOOTE, J. et al., "An Intelligent Media Browser Using Automatic Multimodal Analysis," ACM Multimedia '98, ACM Press, Pages 375-380, Bristol, UK, 1998.	
	C33	FURUI et al., "Japanese Broadcast News Transaction and Information Extraction," Communications of the ACM, 43(2):71-73, Feb. 2000.	

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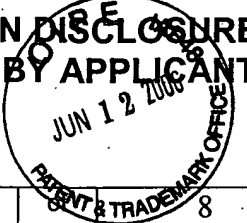
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	C34	GAUVAIN et al., "Transcribing Broadcast News for Audio and Video Indexing," Communications of the ACM, 43:64-70, 2000.	
	C35	GIBBON, David C., "Generating Hypermedia Documents from Transcriptions of Television Programs Using Parallel Text Alignment," Handbook of Internet and Multimedia Systems and Applications, CRC Press, 1998.	
	C36	GLIEDMAN, J., "Virtual Office Managers," Computer Shopper, 18(9):290, 1998.	
	C37	GORDON, "Using Annotated Video as in Information Retrieval Interface," ACM Proceedings of the 5 th International Conference on Intelligent User Interfaces, New Orleans, pp. 133-140, 2000.	
	C38	GREENBERG, Saul, "A Fisheye Text Editor For Relaxed-WYSIWIS Groupware," ACM SIGCHI'96 Conference on Human Factors in Computing System, Companion Proceedings, 1996, pp. 212-213.	
	C39	GREENBERG, et al., "Sharing Fisheye Views in Relaxed-WYSIWIS Groupware Applications," Proceedings of Graphics Interface, Toronto, Canada, May 22-24, 1995, Distributed by Morgan-Kaufmann, pp. 28-38, http://www.cpsu.ucalgary.ca/grouplab/papers/1996/96-Fisheye.GI/gi96fisheye.html .	
	C40	HAUPTMANN et al., "Story Segmentation and Detection of Commercials in Broadcast News Video," Advances in Digital Libraries Conference, Santa Barbara, CA April 22-23, 1998.	
	C41	HAUPTMANN et al., "Text, Speech and Vision for Video Segmentation: the Informedia Project," Proc. AAAI Fall Symp. Computational Models for Integrating Language and Vision, Boston, MA, Nov. 10-12, 1995.	
	C42	HE et al., "Comparing Presentation Summaries: Slides vs. Reading vs. Listening," Conference on Human Factors in Computing Systems (CHI 2000), April 1-6, 2000.	
	C43	HEARST et al., "TileBars: Visualization of Term Distribution Information in Full Text Information Access," Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), Denver, CO., pp/ 1-8, May 1995, http://www.acm.org/sigchi/chi95/Electronic/documents/papers/mah_bdy.htm .	
	C44	HECHT, "Embedded Data Glyph Technology for Hardcopy Digital Documents," Proc. SPIE 2171:341-352, 1994.	
	C45	HECHT, "Printed Embedded Data Graphical User Interfaces," IEEE Computer, March 2001.	

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	C46	HILL et al., "Edit Wear and Read Wear," Computer Graphics and Interactive Media Research Group, pp. 3-9, May 1992.		
	C47	HU et al., "Multimedia Description Framework (MDF) for Content Descriptions of Audio/Video Documents," Fourth ACM Conference on Digital Libraries (DL '99), August 11-14, 1999.		
	C48	IBM Technical Disclosure Bulletin, "Quick Selection of Window Environment Coordinates," 35:57-60, ISS # 4B, 1992.		
	C49	IOFFE et al., "Finding People by Sampling," Proc. International Conference on Computer Vision, pp. 1092-1097, 1999.		
	C50	JANG et al., "Improving Acoustic Models With Captioned Multimedia Speech," IEEE, 1999, pp. 767-771.		
	C51	JIN et al., "Topic Tracking for Radio, TV Broadcast, and Newswire," Proceedings of the DARPA Broadcast News Workshop, Feb. 28-Mar. 3, 1999, Herndon, VA.		
	C52	KOMLODI et al., "Key Frame Preview Techniques for Video Browsing," Proceedings of the 3 rd ACM International Conference on Digital Libraries, June 23-26, 1998, Pittsburgh, pp. 118-125, 1998.		
	C53	LAM et al., "Automatic Document Classification Based on Probabilistic Reasoning: Model and Performance Analysis," IEEE, 3:2719-2723, 1997.		
	C54	LANGLEY, P., "An Analysis of Bayesian Classifiers," Proceedings of 10 th National Conference on Artificial Intelligence, pp. 223-228, 1992.		
	C55	LANGLEY, P., "Induction of Selective Bayesian Classifiers," Proceedings of 10 th National Conference on Uncertainty in Artificial Intelligence, pp. 400-406, 1994.		
	C56	LI et al., "Automatic Text Detection and Tracking in Digital Video," IEEE Transactions on Image Processing – Special Issue on Image and Video Processing for Digital Libraries, 9:147-156, 2000.		
	C57	LI et al., "Text Extraction and Recognition in Digital Video," Proceedings of Third IAPR Workshop on Document Analysis Systems, pp. 119-128, 1998.		
	C58	LI et al., "VISION: A Digital Video Library," Proceedings of the 1 st ACM International Conference on Digital Libraries, pp. 19-27, 1996.		
	C59	LIANG et al., "Practical Video Indexing and Retrieval System," SPIE 3240:294-303, 1988.		

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application No.	10/687,019
				Filing Date	October 15, 2003
				First Named Inventor	John Barrus
				Art Unit	2176
				Examiner Name	not yet known
Sheet	6	of	8	Attorney Docket Number	20412-07973

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶	
	C60	LIENHART et al., "On the Detection and Recognition of Television Commercials," Proc. IEEE Conf. On Multimedia Computing and Systems, Ottawa, Canada, pp. 509-516, June 1997.		
	C61	MA et al., "An Indexing and Browsing System for Home Video," Invited paper, EUSIPCO '2000, 10 th European Signal Processing Conference, 5-8, Sept. 2000, Tampere, Finland.		
	C62	MANBER, U., "The Use of Customized Emphasis in Text Visualization," Proceedings of 1997 IEEE Conf. On Information Visualization, pp. 132-138, Aug. 27-29, 1997, London, England.		
	C63	MAYBURY, "News on Demand," Communications of the ACM, 43:33-34, 2000.		
	C64	MAYBURY et al., "Multimedia Summaries of Broadcast News," International Conference on Intelligent Information Systems, 1997, pp. 442-449.		
	C65	MAYBURY, M. et al., "Segmentation, Content Extraction and Visualization of Broadcast News Video Using Multistream Analysis," AAAI Paper, 1997.		
	C66	MERIALDO et al., "Automatic Construction of Personalized TV News Programs," Seventh ACM International Multimedia Conference, Orlando, November 1999.		
	C67	MERLINO et al., "Broadcast News Navigation Using Story Segmentation," Advanced Information Systems Center, The MITRE Corporation, 1997.		
	C68	MERLINO et al., "Broadcast News Processing Techniques," MITRE Technical Report, MTR 99B0000031, April, 1999.		
	C69	MOHAN, "Text-Based Search of TV News Stories," Proc. SPIE 2916:2-13, 1996.		
	C70	MYERS, B.A. et al., "Multi-View Intelligent Editor for Digital Video Libraries," First ACM and IEEE Joint Conference on Digital Libraries, pp. 106-115, June 24-28, 2001, Roanoke, VA.		
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	C74	SCHWEIGHOFER et al., "The Automatic Generation of Hypertext Links in Legal Documents," Lecture Notes in Computer Science, vol. 1134, Wagner et al., eds., from 7 th Int. Conf., DEXA '96, September, 1996, Zurich, Switzerland.		

Examiner Signature		Date Considered	
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	C75	SHAHRRARY et al., "Automatic Generation of Pictorial Transcripts of Video Programs," Proceedings of the SPIE – Int. Soc. Opt. Eng. 2417:512-518, 1995.	
	C76	SHAHRRARY et al., "Pictorial Transcripts: Multimedia Processing Applied to Digital Library Creation," 1997 IEEE First Workshop on Multimedia Signal Processing, pp. 581-586, 1997.	
	C77	SHAHRRARY et al., "Automated Authoring of Hypermedia Documents of Video Programs," ACM Multimedia 95, San Francisco, CA, November 5-9, 1995.	
	C78	SMITH et al., "Video Skimming and Characterization Through the Combination of Image and Language Understanding," Computer Vision and Pattern Recognition IEEE 1997.	
	C79	SODERGARD et al., "Integrated Multimedia Publishing – Combining TV and Newspaper Content on Personal Channels," downloaded from http://www8.org/w8-papers/1b-multimedia/integrated/integrated.html on 4/4/02, Pages 1-22.	
	C80	SONMEZ et al., "Multiple Speaker Tracking and Detection: Handset Normalization and Duration Scoring," Digital Signal Processing 10:133-143, 2000.	
	C81	SUDA et al., "Logo and Word Matching Using a General Approach to Signal Registration," Fourth International Conference on Document Analysis and Recognition, Ulm, Germany, August 18-20, 1997, 61-65.	
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	C88	UCHIHASHI et al., "Video Manga: Generating Semantically Meaningful Video Summaries," ACM Multimedia 99, Orlando, Florida, October 30-November 5, 1999.		
	C89	VideoLogger, Automate Video Acquisition And Production, Virage, Inc., [online] [Retrieved on April 26, 2002] Retrieved from the Internet<URL:http://www.virage.com/products/details.cfm?productID=5&categoryID=1>		
	C90	"Video Mail Retrieval Using Voice" Cambridge University Engineering Department Computer Laboratory and Olivetti Research Laboratory summary of research found at http://svr-www.eng.cam.ac.uk/research/projects/vmr/ (1997)		
	C91	WACTLAR et al., "Complementary Video and Audio Analysis for Broadcast News Archives," Communications of the ACM, 43:42-47, 2000.		
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	C93	WEISS et al., "Composition and Search with a Video Algebra," IEEE Multimedia 2:12-25, 1995.		
	C94	WILCOX, L. et al., "Annotation and Segmentation for Multimedia Indexing and Retrieval," Proceedings of the Thirty-First annual Hawaii International Conference on System Sciences (Wailea, Hawaii), Volume II, Pages 259-267, January 1998.		
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	C96	ZHANG et al., "Detection of Text Captions in Compressed Domain Video," International Multimedia Conference Proceedings of the 2000 ACM Workshops on Multimedia 2000, Los Angeles, CA, pp. 201-204.		

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01/03/05



Date Mailed: October 4, 2004

Atty/Sec: AHR/clm

Filing Date: October 15, 2003

Serial No. 10/687,019

Docket No.: 20412-07973

Applicants: John Barrus, Gregory J. Wolff, Kurt Piersol, Bradley Rhodes, Stephen Savitzky

Title: Document Collection Manipulation

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TRANSMITTAL FORM

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Application Number	10/687,019		
Filing Date	October 15, 2003		
First Named Inventor	John Barrus		
Group Art Unit Number	2176		
Examiner Name	Not yet known		
Total Number of Pages in This Submission	10*	Attorney Docket Number	20412-07973

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Attorney/Reg. No.:	Amir H. Raubvogel, Reg. No.: 37,070	Dated:	October 4, 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: John Barrus, Gregory J. Wolff, Kurt Piersol, Bradley Rhodes
and Stephen Savitzky

APPLICATION NO.: 06/687,019

FILING DATE: October 15, 2003

TITLE: Document Collection Manipulation

EXAMINER: Not yet known

GROUP ART UNIT: 2176

ATTY. DKT. NO.: 20412-07973

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INFORMATION DISCLOSURE STATEMENT

Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO/SB/08A listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

PATENT

- ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
 - ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
 - ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; (2) a notice of allowance under 37 CFR § 1.311; or (3) an action that otherwise closes prosecution in the application, and:
 - ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement;
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated

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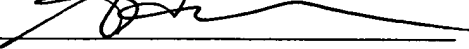
under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☐ Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.
- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☒ This application was filed after June 30, 2003. Therefore, pursuant to the waiver of the requirements under 37 CFR 1.98(a)(2)(i), copies of each U.S. Patent and each U.S. Patent Application Publication are not required to be submitted. Copies of any foreign patent documents and non-patent literature cited herein are enclosed.
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
John Barrus, Gregory J. Wolff, Kurt Piersol, Bradley
Rhodes and Stephen Savitzky

Dated: October 4, 2004

By: 
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	10/687,019
Filing Date	October 15, 2003
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Art Unit	2176
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Attorney Docket Number	20412-07973

Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-2004/0090462 A1	05-13-2004	Graham
		US-2003/0184598 A1	10-02-2003	Graham
		US-2003/0163552 A1	08-28-2003	Savitzky et al.
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		US-5,943,679	08-24-1999	Niles et al.

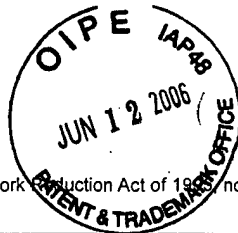
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		US-5,933,841	08-03-1999	Schumacher et al.
		US-5,892,536	04-06-1999	Logan et al.
		US-5,873,107	02-16-1999	Borovoy et al.
		US-5,870,770	02-09-1999	Wolfe
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		US-5,784,616	07-21-1998	Horvitz
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				Application No.	10/687,019
				Filing Date	October 15, 2003
				First Named Inventor	John Barrus
				Art Unit	2176
				Examiner Name	Not yet known
Sheet	3	of	6	Attorney Docket Number	20412-07973

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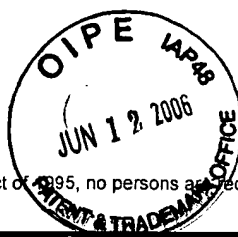
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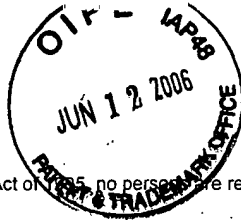
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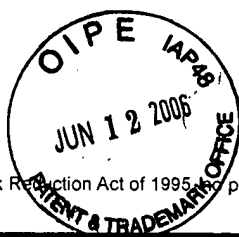
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